

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M STREET, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date 8/24/2009

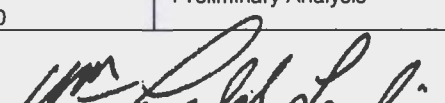
EPA Reg. No./File Symbol 55272-XX

Page 1 of 12

Applicant's/Registrant's Name & Address
 Ingenieria Industrial S.A. de C.V.
 Av. Coyoacan 1878-403
 Col. Del Valle
 03310 Mexico, D.F.

Product
 Copper Hydroxide Technical 90%

Ingredient Copper Hydroxide

Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group A - Product Identity, Composition and Analysis Test Guidelines					
830.1550	Product Identity and Composition	43363801	Copper Sulfate Task Force	OWN	
830.1600	Description of Materials Used to Produce the Product	43363801	Copper Sulfate Task Force	OWN	
830.1620	Description of Production Process	43363801	Copper Sulfate Task Force	OWN	
830.1670	Description of Formation of Impurities	43363801	Copper Sulfate Task Force	OWN	
830.1700	Preliminary Analysis	43363802	Copper Sulfate Task Force	OWN	
Signature 			Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent		Date 8/24/2009

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Page 2 of 12

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Guideline Reference #

Guideline Study Name

MRID #

Submitter

Status

Note

Group A - Product Identity, Composition and Analysis Test Guidelines (Continued)

830.1750

Certified Limits

43363803

Copper Sulfate Task Force

OWN

830.1800

Enforcement Analytical Method

43363804

Copper Sulfate Task Force

OWN

Group B - Physical/Chemical Properties Test Guidelines

830.6302

Color

43363805

Copper Sulfate Task Force

OWN

830.6303

Physical State

43363805

Copper Sulfate Task Force

OWN

830.6304

Odor

43363805

Copper Sulfate Task Force

OWN

Signature

Name and Title

Wm. Ronald Landis, Ph.D. Regulatory Agent

Date

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Page 3 of 12

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Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group B - Physical/Chemical Properties Test Guidelines (Continued)					
830.6313	Stability to Sunlight, Normal and Elevated Temperatures, Metals and Metal Ions	43363805 47644901	Copper Sulfate Task Force Phibro Tech, Inc.	OWN PER	
830.6314	Oxidizing or Reducing Action	47524201	Phibro Tech, Inc.	PER	
830.6315	Flammability	N/A	N/A	N/A	This study is required on the EUP this product is a TGA1.
830.6316	Explosibility	N/A	N/A	N/A	This study is required on the EUP this product is a TGA1.
830.6317	Storage Stability	47716401	Phibro Tech, Inc.	PER	
830.6319	Miscibility	N/A	N/A	N/A	This study is required on the EUP this product is a TGA1.
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Page 4 of 12

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Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group B - Physical/Chemical Properties Test Guidelines (Continued)					
830.6320	Corrosion Characteristics	47716401	Phibro Tech, Inc.	PER	
830.6321	Dielectric Breakdown Voltage	N/A	N/A	N/A	This study is required on the EUP this product is a TGAI.
830.7000	pH of Water Solutions or Suspensions	43363805	Copper Sulfate Task Force	OWN	
830.7050	UV/Visible Absorption	47521702 47465001	Phibro Tech, Inc.	PER	
830.7100	Viscosity	N/A	N/A	N/A	This study is required on the EUP this product is a TGAI.
830.7200	Melting Point/Melting Range	43363805	Copper Sulfate Task Force	OWN	
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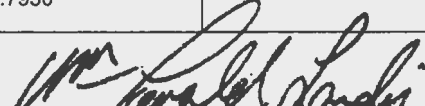
Page 5 of 12

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Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group B - Physical/Chemical Properties Test Guidelines (Continued)					
830.7220	Boiling Point/Boiling Range	N/A	N/A	N/A	This study is required on liquids this product is a solid.
830.7300	Density/Relative Density	43363805	Copper Sulfate Task Force	OWN	
830.7370	Dissociation Constant in Water	N/A	N/A	N/A	This study is not applicable to this product.
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	N/A	N/A	N/A	This study is not applicable to this product.
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography	N/A	N/A	N/A	This study is not applicable to this product.
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	43363805	Copper Sulfate Task Force	OWN	
830.7860	Water Solubility: Generator Column Method	43363805	Copper Sulfate Task Force	OWN	
830.7950	Vapor Pressure	N/A	N/A	N/A	This study is not applicable to this product.
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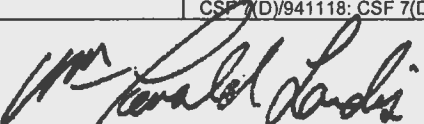
Page 6 of 12

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Product

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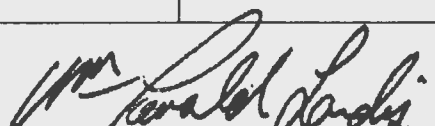
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group A - Aquatic Fauna Test Guidelines					
850.1010	Submission of Environmental Fate Data in Support for Reregistration of Pesticide Products Containing Copper Sulfate.	41189000	Copper Sulfate Task Force	OWN	
850.1010	An Aquatic Sediment Dissipation Study of Copper Sulfate in the Hillborough Reservoir, Florida [Wildlife International Ltd. Project ID 241-101]	41189001	Copper Sulfate Task Force	OWN	
850.1010	Residue and Incidence Monitoring of Aquatic Sites Treated with Copper-Containing Pesticides [Orius Associates, Inc. Project No. 26887: File/Issue No. 35-COP/89024]	41189002	Copper Sulfate Task Force	OWN	
850.1950	Submission of Environmental Fate Data in Support for Reregistration of Pesticide Products Containing Copper Sulfate.	42033700	Copper Sulfate Task Force	OWN	
850.1950	Letter Response to Review of Response to Copper Incident Monitoring Study Data Evaluation Record [Orius Associates, Inc. Lab Project # 26687: File/Issue No. 35-COP/91078]	42033701	Copper Sulfate Task Force	OWN	
Group B - Terrestrial Wildlife Test Guidelines					
850.2100	Avian Oral LD ₅₀ (Mallard or Bobwhite)				Refer to comment # 1 below
850.2200	Avian Dietary LC ₅₀ (Mallard or Bobwhite)				Refer to comment # 1 below
Group E - Toxicity to Microorganisms Test Guidelines					
850.5400	Submission of Hazard to Aquatic Plants Data in Support of Registration Standard for Copper Compounds.	43363600	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition (<i>Navicula pelliculosa</i>) [Huntingdon Research Centre, Ltd. Lab Product #: CSF (D)/941118: CSF 7(D)].	43363601	Copper Sulfate Task Force	OWN	
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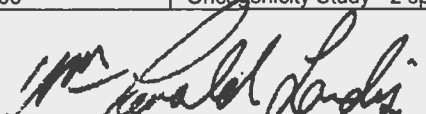
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Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group E - Toxicity to Microorganisms Test Guidelines (cont.)					
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition (<i>Anabaena flos-aquae</i>) [Huntingdon Research Centre, Ltd. Lab Product #: CSF 7(C)/941123: CSF 7(C)].	43363602	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition (<i>Selenastrum capricornutum</i>) [Huntingdon Research Centre, Ltd. Lab Project #: CSF 7(B)/941112: CSF 7(B)].	43363603	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Higher Plant (<i>Lemna</i>) Growth Inhibition Test [Huntingdon Research Centre, Ltd. Lab Project #: CSF 7(A)/941127: CSF 7(A)].	43363604	Copper Sulfate Task Force	OWN	
850.5400	Copper Sulfate Pentahydrate: Algal Growth Inhibition (<i>Skeletonema costatum</i>) [Huntingdon Research Centre, Ltd. Lab Project #: CSF 7(E)/941129: CSF 7(E)].	43363605	Copper Sulfate Task Force	OWN	
Series 860 - Residue Chemistry Test Guidelines					
860.1300	Nature of Residue: Plants				Refer to comment # 1 below
860.1340	Residue Analytical Method				Refer to comment # 1 below
860.1360	Mag. Of Res. - Crop Field Trials				Refer to comment # 1 below
860.1400	Mag. Of Res. - Potable Water				Refer to comment # 2 below
860.1400	Mag. Of Res. - Fish				Refer to comment # 1 below
860.1550	Proposed Tolerance				Refer to comment # 1 below
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Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group A - Acute Toxicity Test Guidelines					
870.1100	Acute Oral Toxicity	42235201	Griffin, L.L.C.	OLD	
870.1200	Acute Dermal Toxicity	42235202	Griffin, L.L.C.	OLD	
870.1300	Acute Inhalation Toxicity	42481201	Griffin, L.L.C.	OLD	
Group B - Specific Organ/ Tissue Toxicity Test Guidelines					
870.2400	Primary Eye Irritation	40237402 40077002	Griffin, L.L.C.	OLD	
870.2500	Primary Dermal Irritation	N/A	N/A	N/A	Refer to Waiver # 1 below
870.2600	Dermal Sensitization	N/A	N/A	N/A	Refer to Waiver # 2 below
Group C - Subchronic Toxicity Test Guidelines					
870.3100 870.3150	90-day Feeding Studies - Rodent and Nonrodent				Refer to comment # 3 below
870.3700	Teratogenicity - 2 Species				Refer to comment # 1 below
870.3800	Reproduction, 2-generation				Refer to comment # 1 below
Group D - Chronic Toxicity Test Guidelines					
870.4100	Chronic Feeding - 2 spp. Rodent and nonrodent				Refer to comment # 1 below
870.4200	Oncogenicity Study - 2 spp. Rat and Mouse				Refer to comment # 1 below
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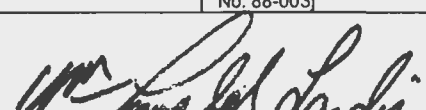
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Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
Group E - Genetic Toxicity Test Guidelines					
870.5100	Gene Mutation				Refer to comment # 1 below
870.5300 870.5375	Structural Chromosome Aberration				Refer to comment # 1 below
870.5385 870.5395	Other Genotoxic Effects				Refer to comment # 1 below
Group F - Neurotoxicity Test Guidelines					
870.6100	Acute Delayed Neurotoxicity -Hen				Refer to comment # 3 below
Group G - Special Studies Test Guidelines					
870.7485	General Metabolism				Refer to comment # 1 below
Group B - Postapplication Exposure Monitoring Test Guidelines					
875.2000 875.2400	Monitoring Exposure of Workers During Reentry into Orange Groves and Determination of Dislodeable Residues of Copper after Application of Tennessee Brand® Tri-Basic® Copper Sulfate Fungicide to Oranges in California [Landis International, Inc. Study No. 12601A003]	44466901	Copper Sulfate Task Force	OWN	
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Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
40 CFR §158.290 Environmental Fate Data Requirements					
161-1	Degradation Studies - Hydrolysis				Refer to comment # 3 below
161-2	Degradation Studies - Photodegradation: In Water				Refer to comment # 3 below
162-1 and 162-2	Submission of Environmental Fate Data in Support of the Copper Sulfate Registration Standard.	40879600	Copper Sulfate Task Force	OWN	
162-3, 162-4 and 163-1	Literature Review to Characterize the Adsorption Potential of Copper in the Environment [HydroQual, Inc. Project No. CSTF-0010]	40879601	Copper Sulfate Task Force	OWN	
164-1	Analytical Report for Terrestrial Outdoor Field Dissipation Studies with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003-002]	41003801	Copper Sulfate Task Force	OWN	
164-1	Method Validation Report for Terrestrial Outdoor Field Dissipation Study with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003]	41003802	Copper Sulfate Task Force	OWN	
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Ingredient Copper Hydroxide					
Guideline Reference #	Guideline Study Name	MRID #	Submitter	Status	Note
40 CFR §158.290 Environmental Fate Data Requirements (cont.)					
164-1	Terrestrial Outdoor Field Dissipation Study with Copper-Containing Pesticides: Interim Study Report [Orius Associates, Inc. Project No. 24086:File/Issue No. 35-COP/89006]	41003803	Copper Sulfate Task Force	OWN	
164-1	Submission of Environmental Fate Data in Support for Reregistration of Pesticide Products Containing Copper Sulfate	41116800	Copper Sulfate Task Force	OWN	
164-1	Metallic Copper Environmental Fate on Citrus in Florida [Biospherics, Inc. Protocol No. 1641-88-121-01-01A-01]	41116801	Copper Sulfate Task Force	OWN	
164-1 and 164-2	Submission of Data to Support Registration of Copper Sulfate: Environmental Fate Studies.	41003800	Copper Sulfate Task Force	OWN	
164-1 and 164-2	Summary of Results and Conclusions for Aquatic and Terrestrial Field Dissipation Studies with the Residue and Incidence Monitoring Survey [Orius Associates, Inc. Project No. 24086: File/Issue No. 35-CO/89020].	41003805	Copper Sulfate Task Force	OWN	
164-2	Submission of Data to Support Registration of Copper Sulfate and Group II Copper Compounds: Residue Chemistry Study.	40968200	Copper Sulfate Task Force	OWN	
164-2	Method Validation Report for Aquatic Outdoor Field Dissipation Study with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003]	40968201	Copper Sulfate Task Force	OWN	
164-2	Analytical Report for Aquatic Outdoor Field Dissipation Studies with Copper-Containing Pesticides [Biospherics, Inc. Study No. 88-003-02]	41003804	Copper Sulfate Task Force	OWN	
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Ingredient Copper Hydroxide		
<p>COMMENT #1: Not required per CFR 40 Part 180.1021 (a) and EPA document titled: "Guidance for the reregistration of pesticide products containing as the active ingredient copper sulfate. Case #0636, CAS #1344-73-6"</p> <p>COMMENT #2: 1 ppm in potable water as per CFR 40 Part 180.536</p> <p>COMMENT #3: Not required per CFR 40 Part 180.1021 (a) and EPA document titled: "Guidance for the reregistration of pesticide products containing as the active ingredient copper sulfate. Case #0636, CAS #1344-73-6"</p> <p>WAIVER #1: This product is a known skin irritant. The Level I/Toxicity Category I user precautions appear on the label.</p> <p>WAIVER #2: Per "Guidance for the Reregistrations of Pesticide Products Containing Group II Copper Compounds as the active Ingredient", (EPA April 1987), copper is a known skin sensitizer and data are not required.</p>		
Signature 	Name and Title Wm. Ronald Landis, Ph.D. Regulatory Agent	Date 8/24/2009